IN THE CLAIMS

Please replace the presently pending claims with the following amended claims:

- 1. (Allowed) A disc drive comprising:
 - a disc rotationally coupled to a chassis;
 - a movable head suspension assembly having a head coupled thereto movable relative to a surface of the disc:
 - a transducer supported on the movable head suspension assembly and configured to induce a transducer signal proportional to movement of the head;
 - a vibration detector configured to detect a transducer signal amplitude above a threshold amplitude and output a level detected signal indicative of head vibration.
- 2. (Allowed) The disc drive of claim 1 wherein the level detected signal is indicative of head-disc contact.
- 3. (Allowed) The disc drive of claim 1 wherein the vibration detector includes a frequency filter.
- 4. (Allowed) The disc drive of claim 3 wherein the frequency filter is configured to detect at least one of a bending mode or torsion mode.
- 5. (Allowed) The disc drive of claim 1 wherein the transducer is a piezoelectric material.
- 6. (Allowed) The disc drive of claim 1 wherein the transducer is an electrostatic transducer.
- 7. (Allowed) The disc drive of claim 1 and further comprising:
 - a process controller coupled to the detector and configured to receive the outputted

level detected signal and output a process command to reexecute a write command in drive memory.

- 8. (Allowed) The disc drive of claim 1 and further comprising:

 a controller coupled to the transducer on the movable head suspension assembly and

 configured to transmit a signal to the transducer to move the head.
- 9. (Allowed) The disc drive of claim 1 wherein the disc drive includes a plurality of discs rotationally coupled to the chassis and a plurality of movable head suspension assemblies having heads coupled thereto to read or write to surfaces of the plurality of discs and including a transducer coupled to each of the plurality of movable head suspension assemblies.
- 10. (Allowed) The disc drive of claim 19 wherein the transducer is configured to operate between a detection mode and an actuation mode, in the detection mode, the transducer detecting the vibration associated with the head suspension assembly and in the actuation mode the transducer receiving a signal to energize the transducer to move a head of the head suspension assembly.
- 11. (Allowed) The disc drive of claim 10 including:
 - a microactuator controller coupled to the transducer and configured to operate the transducer in the actuation mode.
- 12. (Allowed) A method for operating a disc drive comprising steps of:
 - (a) providing a transducer supported on a movable head suspension assembly having a head coupled thereto configured to generate a transducer signal indicative of head vibration; and
 - (b) detecting a signal amplitude of the transducer signal above a threshold amplitude and outputting a level detected signal indicative of the head vibration.

- 13. (Allowed) The method of claim 12 wherein the transducer is a piezoelectric transducer.
- 14. (Allowed) The method of claim 12 and further comprising the step of:
 - (c) transmitting a signal to the transducer on the movable suspension assembly to move the head.
- 15. (Allowed) The method of claim 12 and further comprising the step of:
 - (c) transmitting a command to rewrite a write command in drive memory in response to the level detected signal indicative of the head vibration.
- 16. (Allowed) The method of claim 12 and comprising the step of
 - (c) filtering the transducer signal to detect vibration frequencies of the head.
- 17. (Allowed) The method of claim 12 wherein the disc drive includes a plurality of head suspension assemblies and further comprising:
 - (c) individually detecting the head vibration for each of the plurality of head suspension assemblies.
- 18. (Allowed) The method of claim 12 including a microactuator controller coupled to the transducer and configured to transmit a signal to the transducer to move the head and comprising the step of:
 - (c) selectively operating the disc drive in a detection mode and an actuation mode, in the detection mode the transducer detecting the head vibration and in the actuation mode, the transducer moving the head.
- 19. (Allowed) A drive assembly comprising:
 - a movable head suspension assembly; and
 - a detector coupled to a transducer on the movable head suspension assembly that

provides a signal indicative of a vibration associated with the head suspension assembly and the detector outputs a level detected signal that is responsive to the vibration being greater than a threshold value.

- 20. (Allowed) The method of claim 12 and comprising the step of:
 - (c) filtering the transducer signal to detect one of bending or torsion mode vibration frequencies.
- 21. (Allowed) The assembly of claim 19 in which the vibration is caused by head vibration.
- 22. (Allowed) The assembly of claim 19 wherein the detector includes a filter configured to pass a signal responsive to vibration frequencies associated with the head suspension assembly.
- 23.(Currently Amended) An assembly comprising:
 - a movable suspension assembly;
 - an actuator transducer coupled to the movable suspension assembly; and
 - a detector coupled to the actuator <u>transducer</u> and configured to receive a signal from the actuator <u>transducer</u> proportional to vibration of the movable suspension assembly.
- 24. (Currently Amended) The assembly of claim 23 wherein the actuator <u>transducer comprises</u> is one of a piezoelectric or electrostatic actuator.
- 25. (Currently Amended) The assembly of claim 23 and further comprising:
 - a controller coupled to the actuator <u>transducer</u> and configured to transmit a signal to the actuator <u>transducer</u> to move the movable suspension assembly.
- 26. (Currently Amended) The assembly of claim 23 including a controller configured to operate

the actuator <u>transducer</u> between an actuation mode to position a head of the movable suspension assembly and a detection mode to detect vibration of the head of the movable suspension assembly.